Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
HIGH PERFORMANCE LOW COST VIDEO GAME SYSTEM WITH COPROCESSOR PROVIDING HIGH SPEED EFFICIENT 3D GRAPHICS AND DIGITAL AUDIO SIGNAL PROCESSING	Issued	10106445	6593929	7/15/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895 Jointly owned with Nintendo Co.
INPUT/OUTPUT DEVICE MANAGED TIMER PROCESS	Issued	9399437	6594787	7/15/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND APPARATUS FOR REPRESENTING, MANIPULATING AND RENDERING SOLID SHAPES USING VOLUMETRIC PRIMITIVES	Issued	09338356	6600487	7/29/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR IMPLEMENTING SCALABLE MULTI-READER/SINGLE-WRITER LOCKS	Issued	9615312	6601120	7/29/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
DIAGNOSTIC SYSTEM AND METHOD FOR A HIGHLY SCALABLE COMPUTING SYSTEM	Issued	09409438	6601183	7/29/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
TRANSLATION OF PCI LEVEL INTERRUPTS INTO PACKET BASED MESSAGES FOR EDGE EVENT DRIVE MICROPROCESSORS	Issued	9408084	6604161	8/5/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
TRANSLATING WRITE COMMANDS TO INITIATE PURGE REQUESTS TO MULTIPLE PROCESSORS	Issued	9619851	6604185	8/5/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND APPARATUS FOR PREPARING A PERSPECTIVE VIEW OF AN APPROXIMATELY SPHERICAL SURFACE PORTION	Issued	10288661	6618049	9/9/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SYSTEM AND METHOD FOR IMPROVING SPEED OF OPERATION OF INTEGRATED CIRCUITS	Issued	10131309	6621300	9/16/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
UPSTREAM SITUATED APPARATUS AND METHOD FOR PROVIDING HIGH BANDWIDTH DATA FLOW CONTROL TO AN INPUT/OUTPUT UNIT	Issued	9409805	6622182	9/16/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MEMORY SYSTEM INCLUDING GUIDES THAT RECEIVE MEMORY MODULES	Issued	9346638	6629855	10/7/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MULTIPROCESSOR COMPUTER SYSTEM AND METHOD FOR MAINTAINING CACHE COHERENCE UTILIZING A MULTI-DIMENSIONAL CACHE COHERENCE DIRECTORY STRUCTURE	Issued	8971184	6633958	10/14/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND APPARATUS FOR RECORDING PROGRAM EXECUTION IN A MICROPROCESSOR BASED INTEGRATED CIRCUIT	Issued	9788195	6634011	10/14/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MULTIPROCESSOR SYSTEM UTILIZING MULTIPLE LINKS TO IMPROVE POINT TO POINT BANDWIDTH	Issued	9620372	6643764	11/4/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
INCREASING COLOR ACCURACY	Issued	9818931	6650337	11/18/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MULTI-PROCESSOR SYSTEM AND METHOD OF ACCESSING DATA THEREIN	Issued	9418520	6651157	11/18/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR REAL-TIME SHADING OF COMPUTER GENERATED IMAGES	Issued	10024330	6657624	12/2/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

11708310_5.DOC

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SUB RACK BASED VERTICAL HOUSING FOR COMPUTER SYSTEMS	Issued	10252654	6661667	12/9/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
ACTUATABLE CONNECTOR SYSTEM	Issued	10160437	6672878	1/6/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
AGE-BASED NETWORK ARBITRATION SYSTEM AND METHOD	Issued	9403778	6674720	1/6/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR REDUCING MEMORY LATENCY DURING READ REQUESTS	Issued	9909701	6678798	1/13/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
A METHOD AND SYSTEM FOR CLOCK CYCLE MEASUREMENT AND DELAY OFFSET	Issued	9541068	6680636	1/20/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND CACHE-COHERENCE SYSTEM ALLOWING PURGING OF MID-LEVEL CACHE ENTRIES WITHOUT PURGING LOWER-LEVEL CACHE ENTRIES	Issued	9650100	6681293	1/20/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
PACKET SWITCHED ROUTER ARCHITECTURE FOR PROVIDING MULTIPLE SIMULTANEOUS COMMUNICATIONS	Issued	87175580	6683876	1/27/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
IMAGE DATA COMPRESSION AND DECOMPRESSION	Issued	9458011	6683979	1/27/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
OPTIMIZE GLOBAL NET TIMING WITH REPEATER BUFFERS	Issued	9620504	6684373	1/27/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

11708310_5 DOC

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SYNTHESIS WITH AUTOMATED PLACEMENT INFORMATION FEEDBACK	Issued	9620338	6701496	3/2/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
I/O IMPEDANCE CONTROLLER	Issued	9619724	6703908	3/9/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
TRANSFER ATTRIBUTE ENCODING WITHIN PCI CONSTRUCTED ADDRESS TO INDICATE WHETHER BYTES WITHIN A WORD SHOULD BE SWAPPED	Issued	9407421	6711636	3/23/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR A SELF-CALIBRATING SENSE AMPLIFIER STROBE	Issued	10180478	6714464	3/30/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
EARNINGS-BASED TIME-SHARE SCHEDULING	Issued	8752909	6714960	3/30/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR USING HIGH COUNT INVALIDATE ACKNOWLEDGEMENTS IN DISTRIBUTED SHARED MEMORY SYSTEMS	Issued	9910274	6718442	4/6/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR MAINTAINING AND RECOVERING DATA CONSISTENCY ACROSS MULTIPLE PAGES	Issued	9730871	6721739	4/13/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR REPAIRING A MEMORY COLUMN	Issued	10142822	6724669	4/20/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MEMORY DAUGHTER CARD APPARATUS, CONFIGURATIONS, AND METHODS	Issued	10231511	6726505	4/27/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
CROSSBAR SWITCH WITH COMMUNICATION RING BUS	Issued	9128392	6728206	4/27/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR RESOURCE RECOVERY IN A DISTRIBUTED SYSTEM	Issued	9547702	6728895	4/27/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895 Jointly owned with Time-Warner Entertainment Co., L.P.
NOISE ESTIMATION FOR COUPLED RC INTERCONNECTS IN DEEP-SUBMICRON INTEGRATED CIRCUITS	Issued	09301863	6732065	5/4/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
DEVICE AND METHOD FOR STORING INFORMATION IN MEMORY	Issued	9788175	6738885	5/18/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR MAINTAINING AND RECOVERING DATA CONSISTENCY ACROSS MULTIPLE INSTANCES OF A DATABASE	Issued	9730618	6751636	6/15/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MULTIPROCESSOR NODE CONTROLLER CIRCUIT AND METHOD	Issued	9407428	6751698	6/15/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
CACHE LINE CONVERTER	Issued	9650101	6751705	6/15/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SCAN INTERFACE CHIP (SIC) SYSTEM AND METHOD FOR SCAN TESTING ELECTRONIC SYSTEMS	Issued	9542791	6760876	7/6/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
MODULAR FAN BRICK AND METHOD FOR EXCHANGING AIR IN A BRICK-BASED COMPUTER SYSTEM	Issued	10200803	6765795	7/20/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
EXCHANGING MESSAGES BETWEEN COMPUTER SYSTEMS COMMUNICATIVELY COUPLED IN A COMPUTER SYSTEM NETWORK	Issued	9427203	6766358	7/20/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
DISTRIBUTED SCHEDULING OF PARALLEL JOBS WITH NO KERNEL-TO-KERNEL COMMUNICATION	Issued	8801646	6766515	7/20/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
PRINTED CIRCUIT BOARD STIFFENER	Issued	10202377	6771517	8/3/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
A CIRCUIT DESIGN FOR HIGH-SPEED DIGITAL COMMUNICATION	Issued	9384906	6775339	8/10/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MEMORY DEVICE STORING DATA AND DIRECTORY INFORMATION THEREON, AND METHOD FOR PROVIDING THE DIRECTORY INFORMATION AND THE DATA IN THE MEMORY DEVICE	Issued	9909693	6775742	8/10/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND APPARATUS FOR ACCESSING MMR REGISTERS DISTRIBUTED ACROSS A LARGE ASIC	Issued	9619722	6779072	8/17/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYNCHRONIZATION OF VERTICAL RETRACE FOR MULTIPLE PARTICIPATING GRAPHICS COMPUTERS	Issued	9993924	6791551	9/14/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR STORING DATA AT INPUT/OUTPUT (I/O) INTERFACES FOR A MULTIPROCESSOR SYSTEM	Issued	9910363	6795900	9/21/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

11708310_5 DOC

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
BUS SPEED CONTROLLER USING SWITCHES	Issued	10068991	6799238	9/28/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
A PROGRAMMABLE DIFFERENTIAL DELAY CIRCUIT WITH FINE DELAY ADJUSTMENT	Issued	10143413	6803872	10/12/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SWAP BUFFER SYNCHRONIZATION IN A DISTRIBUTED RENDERING SYSTEM	Issued	9993889	6809733	10/26/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR BLENDING TEXTURES DURING RENDERING OF A COMPUTER GENERATED IMAGE USING A SINGLE TEXTURE AS A MASK	Issued	10183553	6809739	10/26/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
COMPUTER ENCLOSURE AND METHOD FOR MANUFACTURE	Issued	10219654	6813151	11/2/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR MEMORY ARBITRATION	Issued	9909705	6816947	11/9/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MODULAR COMPUTING ARCHITECTURE HAVING COMMON COMMUNICATION INTERFACE	Issued	9408874	6829666	12/7/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR TRANSFERRING OWNERSHIP OF DATA IN A DISTRIBUTED SHARED MEMORY SYSTEM	Issued	9910572	6829683	12/7/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR FORMING AN OBJECT PROXY	Issued	10197822	6831642	12/14/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SYNCHRONIZING IMAGE DISPLAY AND BUFFER SWAPPING IN A MULTIPLE DISPLAY ENVIRONMENT	Issued	9993925	6831648	12/14/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
ASSEMBLY PROCESS AND HEAT SINK DESIGN FOR HIGH POWERED PROCESSOR	Issued	9619869	6831834	12/14/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
VARIABLE MODE BI-DIRECTIONAL AND UNI-DIRECTIONAL COMPUTER COMMUNICATION SYSTEM	Issued	9620333	6831924	12/14/2004	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR CONTROLLING DATA ACCESS BETWEEN AT LEAST TWO MEMORY ARRANGEMENTS	Issued	9910395	6839820	1/4/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND CIRCUIT FOR RELIABLE DATA CAPTURE IN THE PRESENCE OF BUS-MASTER CHANGEOVERS	Issued	9620058	6839856	1/4/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
COMPUTER-RELATED METHOD, SYSTEM AND PROGRAM PRODUCT FOR CONTROLLING DATA VISUALIZATION IN EXTERNAL DIMENSIONS	Issued	10199045	6842176	1/11/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR A HIERARCHICAL SYSTEM MANAGEMENT ARCHITECTURE OF A HIGHLY SCALABLE COMPUTING SYSTEM	Issued	9522695	6845410	1/18/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SUB RACK BASED VERTICAL HOUSING FOR COMPUTER SYSTEMS	Issued	10660173	6847526	1/25/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
METHOD AND SYSTEM FOR ESTIMATING INTERCONNECT DELAY	Issued	9713842	6853969	2/8/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
ABSTRACT VERIFICATION ENVIRONMENT	Issued	9418706	6856950	2/15/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR MANAGING DATA AT AN INPUT/OUTPUT INTERFACE FOR A MULTIPROCESSOR SYSTEM	Issued	9910631	6859863	2/22/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
APPARATUS AND METHOD FOR MAXIMIZING EQUIPMENT STORAGE DENSITY	Issued	10191923	6862187	3/1/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
METHOD AND APPARATUS FOR MANAGING NODE CONTROLLERS USING PARTITIONS IN A COMPUTER SYSTEM	Issued	9910629	6877029	4/5/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR CACHE COHERENCE IN DSM MULTIPROCESSOR SYSTEM WITHOUT GROWTH OF THE SHARING VECTOR	Issued	10084088	6877030	4/5/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYNCHRONIZATION OF HARDWARE SIMULATION PROCESSES	Issued	9459995	6879948	4/12/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR EXCHANGING AIR WITH MODULAR BRICKS IN A COMPUTER SYSTEM	Issued	102201230	6882531	4/19/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
PRIMITIVE CULLING APPARATUS AND METHOD	Issued	10716186	6900818	5/31/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND APPARATUS FOR PREFETCHING INFORMATION AND STORING THE INFORMATION IN A STREAM BUFFER	Issued	9627471	6901500	5/31/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
CACHE MEMORY FOR IDENTIFYING LOCKED AND LEAST RECENTLY USED STORAGE LOCATIONS	Issued	10174391	6904501	6/7/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
APPARATUS AND METHOD FOR MAXIMIZING EQUIPMENT STORAGE DENSITY	Issued	10875355	6906925	6/14/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
SYSTEM AND METHOD FOR HANDLING UPDATES TO MEMORY IN A DISTRIBUTED SHARED MEMORY SYSTEM	Issued	9910589	6915387	7/5/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR EFFICIENT USE OF A MULTI-DIMENSIONAL SHARING VECTOR IN A COMPUTER SYSTEM	Issued	9910630	6915388	7/5/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR PREFETCHING DATA	Issued	10272642	6918010	7/12/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
DUAL-BANK FIFO FOR SYNCHRONIZATION OF READ DATA IN DDR SDRAM	Issued	9619771	6920526	7/19/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR IMAGE-BASED RENDERING WITH PROXY SURFACE ANIMATION	Issued	10688936	6924805	8/2/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
REMOTE ADDRESS TRANSLATION IN A MULTIPROCESSOR SYSTEM	Issued	10017488	6925547	8/2/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR REDUCING MEMORY LATENCY DURING READ REQUESTS	Issued	10725897	6938128	8/30/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
CLUSTER FILE SYSTEM	Issued	10162258	6950833	9/27/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
COMMON USER INTERFACE DEVELOPMENT TOOLKIT FOR A SYSTEM ADMINISTRATION PROGRAM	Issued	9811345	6971086	11/29/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SCALABLE HYPERCUBE MULTIPROCESSOR NETWORK FOR MASSIVE PARALLEL PROCESSING	Issued	9408972	6973559	12/6/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
VENTILATED HOUSING FOR ELECTRONIC COMPONENTS	Issued	10435211	6975510	12/13/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
METHOD AND SYSTEM FOR MAINTAINING DATA AT INPUT/OUTPUT (I/O) INTERFACES FOR A MULTIPROCESSOR SYSTEM	Issued	9910531	6981101	12/27/2005	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR MANAGING GRAPHICS APPLICATIONS	Issued	10207945	6982682	1/3/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR DECOUPLING THE USER INTERFACE AND APPLICATION WINDOW IN A GRAPHICS APPLICATION	Issued	10208049	6985149	1/10/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
PACKETIZED DATA TRANSMISSIONS IN A SWITCHED ROUTER ARCHITECTURE	Issued	9896370	6985484	1/10/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SYSTEM AND METHOD FOR HIERARCHICAL APPROXIMATION OF LEAST RECENTLY USED REPLACEMENT ALGORITHMS WITHIN A CACHE ORGANIZED AS TWO OR MORE SUPER-WAYS OF MEMORY BLOCKS	Issued	10274766	6986001	1/10/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR MAINTAINING AND RECOVERING DATA CONSISTENCY IN A DATA BASE PAGE	Issued	9730988	6993523	1/31/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR COVERING MULTIPLE RESOURCES WITH A SINGLE CREDIT IN A COMPUTER SYSTEM	Issued	9910584	7007097	2/28/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND APPARATUS FOR RECORDING TRACE DATA IN A MICROPROCESSOR BASED INTEGRATED CIRCUIT	Issued	9788174	7007205	2/28/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
TEXTURE ROAMING VIA DIMENSION ELEVATION	Issued	10690638	7012614	3/14/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR GENERATING SEQUENCES AND GLOBAL INTERRUPTS IN A CLUSTER OF NODES	Issued	10254804	7016998	3/21/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR SPATIALLY COMPOSITING DIGITAL VIDEO IMAGES WITH A TILE PATTERN LIBRARY	Issued	9689785	7027072	4/11/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR ADAPTIVELY DESKEWING PARALLEL DATA SIGNALS RELATIVE TO A CLOCK	Issued	9476678	7031420	4/18/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
METHOD, SYSTEM, AND COMPUTER PROGRAM PRODUCT FOR DETERMINING A STRUCTURE OF A GRAPHICS COMPOSITOR TREE	Issued	10429328	7034837	4/25/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD OF AND APPARATUS FOR COMPRESSING AND UNCOMPRESSING IMAGE DATA	Issued	9162244	7058218	6/6/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR INTUITIVE INTERACTIVE NAVIGATION CONTROL IN VIRTUAL ENVIRONMENTS	Issued	100461179	7058896	6/6/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MANAGEMENT AND SCHEDULING OF A DISTRIBUTED RENDERING METHOD AND SYSTEM	Issued	9609045	7062527	6/13/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR IMPLEMENTING SHADOWS USING PRE-COMPUTED TEXTURES	Issued	10153690	7064755	6/20/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
PROVIDING SHARED AND NON-SHARED ACCESS TO MEMORY IN A SYSTEM WITH PLURAL PROCESSOR COHERENCE DOMAINS	Issued	9910591	7069306	6/27/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
EXTERNAL FAN AND METHOD FOR EXCHANGING AIR WITH MODULAR BRICKS IN A COMPUTER SYSTEM	Issued	10200828	7088581	8/8/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
ADDRESS TRANSLATION USING A PAGE SIZE TAG	Issued	10632131	7089398	8/8/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR SECURE REMOTE DISTRIBUTED RENDERING	Issued	9608938	7092983	8/15/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SYSTEM AND METHOD FOR ENCODING PAGE SIZE INFORMATION	Issued	10632681	7100018	8/29/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
BACKSHELL ASSEMBLY	Issued	10205877	7124505	10/24/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR MANAGING GRAPHICS APPLICATIONS	Issued	10208123	7140024	11/21/2006	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND APPARATUS FOR PROCESSING PRIMITIVE DATA FOR POTENTIAL DISPLAY ON A DISPLAY DEVICE	Issued	10715882	7158132	1/2/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SPATIAL DERIVATIVE BUS ENCODER AND DECODER	Issued	10171095	7167523	1/23/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MEMORY ACCESS MANAGEMENT IN A SHARED MEMORY MULTI-PROCESSOR SYSTEM	Issued	10687196	7174437	2/6/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR PERFORMING ADDRESS TRANSLATION IN A COMPUTER SYSTEM	Issued	10835855	7181589	2/20/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895 Jointly owned with University of Utah. No record of assignment from inventors to Seller on file with U.S. PTO.
SUB RACK BASED VERTICAL HOUSING FOR COMPUTER SYSTEMS	Issued	11012591	7193857	3/20/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SYSTEM AND METHOD FOR PROVIDING ACCESS TO A BUS	Issued	9315806	7197589	3/27/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR GRAPHICS CULLING	Issued	11043038	7212204	5/1/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR A HIERARCHICAL SYSTEM MANAGEMENT ARCHITECTURE OF A HIGHLY SCALABLE COMPUTING SYSTEM	Issued	09644698	7219156	5/15/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
VENTILATED HOUSING FOR ELECTRONIC COMPONENTS	Issued	11232399	7227751	6/5/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
METHOD AND APPARATUS FOR COMMUNICATING COMPUTER DATA FROM ONE POINT TO ANOTHER OVER A COMMUNICATIONS MEDIUM	Issued	9620373	7248635	7/24/2007	Assignee: MORGAN STANLEY & CO., INC Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
TRANSPARENT DISTRIBUTION AND EXECUTION OF DATA IN A MULTIPROCESSOR ENVIRONMENT	Issued	9934443	7249357	7/24/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR REMOTE GRAPHICS PROCESSING	Issued	9629458	7274368	9/25/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD, SYSTEM, AND COMPUTER PROGRAM PRODUCT FOR BLENDING TEXTURES IN A TEXTURE PAGING SCHEME	Issued	10425735	7295212	11/13/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYNCHRONIZATION CIRCUITS FOR THE DISTRIBUTION OF UNIQUE DATA TO SCATTERED LOCATIONS	Issued	10356236	7302027	11/27/2007	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

11708310_5.DOC

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
ANTICIPATORY PROGRAMMABLE INTERFACE PRE-DRIVER	Issued	11116734	7327167	2/5/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD OF AND APPARATUS FOR COMPRESSING AND UNCOMPRESSING IMAGE DATA	Issued	10674825	7330587	2/12/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
AN INTERFACE FOR SYNCHRONOUS DATA TRANSFER BETWEEN DOMAINS CLOCKED AT DIFFERENT FREQUENCIES	Issued	9621315	7333516	2/19/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
NODE TRANSLATION AND PROTECTION IN A CLUSTERED MULTIPROCESSOR SYSTEM	Issued	10020854	7356026	4/8/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR MINIMIZING AN AMOUNT OF DATA NEEDED TO TEST DATA AGAINST SUBAREA BOUNDARIES IN SPATIALLY COMPOSITED DIGITAL VIDEO	Issued	10058050	7358974	4/15/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR IMAGE-BASED RENDERING WITH OBJECT PROXIES	Issued	10197845	7362335	4/22/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
A METHOD AND APPARATUS FOR MAINTAINING COHERENCE INFORMATION IN MULTI-CACHE SYSTEMS	Issued	10785575	7370154	5/6/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
COMPOSITING IMAGES USING LOGICALLY DIVIDED OBJECT SPACE	Issued	11091237	7385614	6/10/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
APPARATUS AND METHOD OF CONTROLLING DATA SHARING ON A SHARED MEMORY COMPUTER SYSTEM	Issued	11413620	7386680	6/10/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SYSTEM AND METHOD FOR GRAPHICS CULLING	Issued	11790648	7388582	6/17/2008	
SYSTEM AND METHOD FOR PERFORMING MEMORY OPERATIONS IN A COMPUTING SYSTEM	Issued	10836932	7398359	7/8/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895 No record of assignment from certain inventors to Seller on file with the U.S. PTO: Miller, Rudolph, Leiserson, Kuszmaul, Asanovic. Massachussetts Institute of Technology may have an interest in this patent.
SYSTEM AND METHOD FOR ALLOWING REMOTE USERS TO SPECIFY GRAPHICS APPLICATION PARAMETERS FOR GENERATION OF INTERACTIVE IMAGES	Issued	10112430	7401116	7/15/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR PRESENTING THREE-DIMENSIONAL COMPUTER GRAPHICS IMAGES USING MULTIPLE GRAPHICS PROCESSING UNITS	Issued	9888438	7405734	7/29/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MULTIPROCESSOR NODE CONTROLLER CIRCUIT AND METHOD	Issued	10868181	7406086	7/29/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
QUEUE CIRCUIT AND METHOD FOR MEMORY ARBITRATION EMPLOYING SAME	Issued	9909704	7406554	7/29/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR RENAMING REGISTERS IN A MICROPROCESSOR.	Issued	10210257	7406587	7/29/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR REDUCING BACK FLOW	Issued	11343968	7425117	9/16/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SYSTEM AND METHOD FOR ADAPTIVELY DESKEWING PARALLEL DATA SIGNALS RELATIVE TO A CLOCK	Issued	11405387	7433441	10/7/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR CONVEYING INFORMATION	Issued	10310400	7447794	11/4/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
GLOBAL POINTERS FOR SCALABLE PARALLEL APPLICATIONS	Issued	10365658	7451278	11/11/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR ORDERING OF DATA TRANSFERRED OVER MULTIPLE CHANNELS	Issued	9910587	7453878	11/18/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SCALABLE METHOD AND SYSTEM FOR STREAMING HIGH-RESOLUTION MEDIA	Issued	11209765	7460126	12/2/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 1/22/2009 Reel/Frame: 022137/0162
NODE SYNCHRONIZATION FOR MULTI-PROCESSOR COMPUTER SYSTEMS	Issued	11113805	7464115	12/9/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM FOR INSERTION AND EXTRACTION OF AN ELECTRONIC MODULE	Issued	11261045	7466561	12/16/2008	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
ELECTROMAGNETIC INTERFERENCE CABLE BACKSHELL ASSEMBLY FOR HIGH-DENSITY INTERCONNECT	Issued	10235221	7485003	2/3/2009	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM FOR SYNCHRONIZING DISPLAY OF IMAGES IN A MULTI-DISPLAY COMPUTER SYSTEM	Issued	10695779	7499044	3/3/2009	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

11708310_5.DOC

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
METHOD AND SYSTEM FOR MANAGING MEMORY IN A MULTIPROCESSOR SYSTEM	Issued	11426538	7500068	3/3/2009	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
TOP, SIDES AND FRONT PORTIONS OF A COMPUTER HOUSING	Issued	29015504	D363703	10/31/1995	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
TOP FRONT AND SIDE PORTIONS OF A COMBINED COMPUTER HOUSING AND SUPPORT STANDS	Issued	29013925	D367269	2/20/1996	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
HOUSING FOR DESKSIDE COMPUTER	Issued	29060131	D393249	4/7/1998	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
HOUSING FOR A COMPUTER	Issued	29060425	D393449	4/14/1998	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
A COMPUTER HOUSING OR SIMILAR ARTICLE	Issued	29060203	D395286	6/16/1998	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
COMPACT COMPUTER HOUSING DESIGN	Issued	29065316	D396698	8/4/1998	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
COMPUTER HOUSING OR SIMILAR ARTICLE	Issued	29096304	D417203	11/30/1999	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
BEZEL FOR A COMPUTER	Issued	29108315	D429248	8/8/2000	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
HOUSING FOR COMPUTERS AND THE LIKE	Issued	29097545	D431242	9/26/2000	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
RADIAL COMPUTER SYSTEM	Issued	29113555	D436950	1/30/2001	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SERVER COVER	Issued	29127590	D444461	7/3/2001	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
DRIVE SLED HANDLE	Issued	29125872	D444471	7/3/2001	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
DRIVE SLED COVER	Issued	29125873	D444474	7/3/2001	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SERVER DOOR	Issued	29127551	D445112	7/17/2001	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
FRONT PANEL MEDIA DOOR	Issued	29125876	D445425	7/24/2001	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
INDUSTRIAL RACK	Issued	29136032	D463796	10/1/2002	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
PANEL	Issued	29135803	D464054	10/8/2002	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SERVER PRODUCT FACEPLATE	Issued	29146729	D464056	10/8/2002	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
PANEL	Issued	29135733	D464973	10/29/2002	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SET OF MULTI-DEVICE FACEPLATES	Issued	29148943	D473561	4/22/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM FOR COMMUNICATIONS WHERE FIRST PRIORITY DATA TRANSFER IS NOT DISTURBED BY SECOND PRIORITY DATA TRANSFER AND WHERE ALLOCATED BANDWIDTH IS REMOVED WHEN PROCESS TERMINATES ABNORMALLY	Issued	9679447	RE38134	6/3/2003	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
REMOTE CONTROL DESIGN	Issued	36927	D398009	9/8/1998	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895 Jointly owned with Scientific-Atlanta, Inc. and MIPs Technologies, Inc. No record of assignment from certain inventors on file with U.S. PTO.
FLEXIBLE LANDSCAPE DISPLAY SYSTEM FOR INFORMATION DISPLAY AND CONTROL	Pending	11368452			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR MINIMIZING AN AMOUNT OF DATA NEEDED TO TEST DATA AGAINST SUBAREA BOUNDARIES IN SPATIALLY COMPOSITED DIGITAL VIDEO	Pending	12103586			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269

11708330_5.DOC

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
NODE SYNCHRONIZATION FOR MULTI-PROCESSOR COMPUTER SYSTEMS	Pending	12330413			
SYSTEM AND METHOD FOR IMAGE-BASED RENDERING WITH OBJECT PROXIES	Pending	12050104			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR REMOTE GRAPHICS PROCESSING	Pending	11892627			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
COLOR COMPUTATION OF PIXELS USING A PLURALITY OF VERTEX OR FRAGMENT SHADER PROGRAMS	Pending	11183848			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
INTEGRATION OF GRAPHICAL APPLICATION CONTENT INTO THE GRAPHICAL SCENE OF ANOTHER APPLICATION	Pending	11368451			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MEDIA FUSION REMOTE ACCESS SYSTEM	Pending	11368625			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD FOR SYNCHRONIZING DISPLAY OF IMAGES IN A MULTI-DISPLAY COMPUTER SYSTEM	Pending	12393511			
SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR APPLYING DIFFERENT TRANSPORT MECHANISMS FOR USER INTERFACE AND IMAGE PORTIONS OF A REMOTELY RENDERED IMAGE	Pending	10426003			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEMS FOR GENERATING SYNCHRONIZED EVENTS AND IMAGES	Pending	11340579			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SYSTEM AND METHOD FOR ORDERING OF DATA TRANSFERRED OVER MULTIPLE CHANNELS	Pending	12273453			
DATA COHERENCE METHOD AND APPARATUS FOR MULTI-NODE COMPUTER SYSTEM	Pending	11268164			
HOT PLUG CONTROL APPARATUS AND METHOD	Pending	11235493			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SYSTEM AND METHOD FOR SYNCHRONIZING REAL TIME CLOCK VALUES IN ARBITRARY DISTRIBUTED SYSTEMS	Pending	11620215			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
A NON-SATURATING FAIRNESS PROTOCOL AND METHOD FOR NACKING SYSTEMS	Pending	12039048			
A SCALABLE PARALLEL VECTOR COMPUTER SYSTEM	Pending	523540			
ADDRESS-SELECTED ATTRIBUTE ENCODING AND BYTE-SWAPPING	Pending	9648902			
CAMABLE, BLIND MATE/DEMATE OPTICAL EDGE CONNECTOR	Pending	09549980			
CLUSTER FILESYSTEM	Pending	11079409			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
CLUSTERED FILESYSTEM FOR MIX OF TRUSTED AND UNTRUSTED NODES	Pending	10414239			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
COMMON USER INTERFACE DEVELOPMENT TOOLKIT FOR A SYSTEM ADMINISTRATION PROGRAM	Pending	11224376			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
COMPENSATED CANCELLER AND EQUALIZER FOR SIMULTANEOUS BI-DIRECTIONAL COMMUNICATIONS IN A COMPUTING SYSTEM	Pending	9441774			
SYSTEM AND METHOD FOR OPTIMIZING COMPUTATIONAL DENSITY	Pending	11585619			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
DETECTION AND CONTROL OF RESOURCE CONGESTION BY A NUMBER OF PROCESSORS	Pending	10631988			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
DIRECT MEMORY ACCESS ENGINE FOR DATA TRANSFERS	Pending	11685750			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
DISTRIBUTED GRAPHICS PROCESSING APPARATUS AND METHOD	Pending	11027752			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
FAIL-SOFT CAPABILITY FOR MULTIPLE CPU SYSTEM	Pending	11334526			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
FAILURE HIERARCHY IN A CLUSTER FILESYSTEM	Pending	10345371			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
FAULT TOLERANT MEMORY SYSTEM	Pending	11136260			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
FLEXIBLE FAILOVER POLICIES IN HIGH AVAILABILITY COMPUTING SYSTEMS	Pending	9997404			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
GENERATION AND USE OF SYSTEM LEVEL DEFECT TABLES FOR MAIN MEMORY	Pending	11323029			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
INTERRUPTIBLE TOKEN ACQUISITION	Pending	11785256			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
LOAD BALANCING FOR PARALLEL TASKS	Pending	11677460			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
MAINTAINING MEMBERSHIP IN HIGH AVAILABILITY COMPUTING SYSTEMS	Pending	9811158			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MEMBERSHIP VERSION SUPPORT	Pending	11785255			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 12/16/2008 Reel/Frame: 021985/0269
MESSAGING BETWEEN HETEROGENEOUS CLIENTS OF A STORAGE AREA NETWORK	Pending	10414245			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR CONTROLLING UTILISATION OF A FILE SYSTEM	Pending	10912722			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD AND SYSTEM FOR DISTRIBUTED RENDERING	Pending	9609046			
METHOD AND SYSTEM FOR MINIMIZING AN AMOUNT OF DATA NEEDED TO COMMUNICATE TILE INFORMATION IN SPATIALLY COMPOSITED DIGITAL VIDEO	Pending	09689784			
METHOD AND SYSTEM FOR SPATIALLY COMPOSITING DIGITAL VIDEO IMAGES WITH COARSE TILES	Pending	09689786			

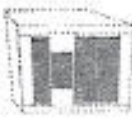| Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
METHOD FOR EQUITABLE RESOURCE SHARING BETWEEN LOCAL AND NETWORK FILESYSTEMS	Pending	10620797			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
METHOD FOR PERFORMING CACHE COHERENCY IN A COMPUTER SYSTEM	Pending	10837057			
MULTI-CLASS HETEROGENEOUS CLIENTS IN A CLUSTERED FILESYSTEM	Pending	10414236			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
MULTIPROCESSOR NODE CONTROLLER CIRCUIT AND METHOD	Pending	12181202			Assignee: MORGAN STANLEY & CO., INC. & CO., INC. Brief: SECURITY AGREEMENT Recorded: 1/22/2009 Reel/Frame: 022137/0162
MULTI-PROCESSOR SYSTEM AND METHOD OF ACCESSING DATA THEREIN	Pending	10696146			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
NETWORK FILESYSTEM ASYNCHRONOUS I/O SCHEDULING	Pending	10620835			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
NETWORK TOPOLOGY FOR A SCALABLE MULTIPROCESSOR SYSTEM	Pending	12121941			
PREDICTIVE PREFAULTING IN THE PAGE FAULT HANDLER	Pending	11218868			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
PRIMITIVE CULLING APPARATUS AND METHOD	Pending	11490505			
REAL-TIME STORAGE AREA NETWORK	Pending	10434340			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895

11709310_5 DOC

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
RECOVERY AND RELOCATION OF A DISTRIBUTED NAME SERVICE IN A CLUSTER FILESYSTEM	Pending	10345357			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
RELOCATION OF METADATA SERVER WITH OUTSTANDING DMAPI REQUESTS	Pending	10620387			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SELF-TUNING TIME INTERPOLATOR	Pending	11464148			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SUB RACK BASED VERTICAL HOUSING FOR COMPUTER SYSTEMS	Pending	11386382			
SYSTEM AND METHOD FOR ADAPTIVELY DESKEWING PARALLEL DATA SIGNALS RELATIVE TO A CLOCK	Pending	12247122			Assignee: MORGAN STANLEY & CO., INC. & CO., INC. Brief: SECURITY AGREEMENT Recorded: 1/22/2009 Reel/Frame: 022137/0162
SYSTEM AND METHOD FOR CONVEYING INFORMATION	Pending	10310237			
SYSTEM AND METHOD FOR CONVEYING INFORMATION	Pending	12264871			Assignee: MORGAN STANLEY & CO., INC. & CO., INC. Brief: SECURITY AGREEMENT Recorded: 1/22/2009 Reel/Frame: 022137/0162
SYSTEM AND METHOD FOR DISCARDING FRAMES OF AN IMAGE DURING TRANSPORT ACROSS A NETWORK LINK	Pending	10112392			
SYSTEM AND METHOD FOR MANAGING GRAPHICS APPLICATIONS	Pending	10207940			
SYSTEM AND METHOD FOR MANAGING GRAPHICS APPLICATIONS	Pending	11324684			
SYSTEM AND METHOD FOR PERFORMING MEMORY OPERATIONS IN A COMPUTING SYSTEM	Pending	12168689			

Title	Status	Application No.	Patent No.	Issue Date	Unreleased Liens/Other Interests
SYSTEM AND METHOD FOR PROVIDING COLLABORATION OF A GRAPHICS SESSION	Pending	10112366			
SYSTEM AND METHOD FOR PROVIDING DYNAMIC COMPRESSION CONTROL OF A GRAPHICS SESSION	Pending	11049111			
SYSTEM AND METHOD FOR PROVIDING DYNAMIC CONTROL OF A GRAPHICS SESSION	Pending	10112345			
SYSTEM AND METHOD FOR PROVIDING INTERACTIVE IMAGES	Pending	12172754			
SYSTEM AND METHOD FOR PROVIDING INTERFRAME COMPRESSION IN A GRAPHICS SESSION	Pending	10109835			
SYSTEM AND METHOD FOR REMOVING DATA FROM PROCESSOR CACHES IN A DISTRIBUTED MULTI-PROCESSOR COMPUTER SYSTEM	Pending	9909700			
SYSTEM AND METHOD FOR REORDERING DATA	Pending	10017972			
SYSTEM AND METHOD FOR RETROFITTING A PROCESSOR INTO A SYSTEM DESIGNED FOR ANOTHER PROCESSOR	Pending	9648150			
SYSTEM AND METHOD FOR SYNCHRONIZING DISTRIBUTION OF TRANSACTION OPERATIONS IN A COMPUTER SYSTEM	Pending	10976531			
TRANSLATION LOOKASIDE BUFFER CHECKPOINT SYSTEM	Pending	11340486			Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY AGREEMENT Recorded: 10/18/2007 Reel/Frame: 019995/0895
SCALABLE METHOD AND SYSTEM FOR STREAMING HIGH-RESOLUTION MEDIA	Pending	12325769			
USE OF RAY-TRACING FOR GENERATING IMAGES FOR AUTO-STEREO DISPLAYS	Pending	11321253			

U.S. Trademarks and Trademark Applications

Trademark	Status	Appl. No.	Reg. No.	Reg. Date	Unreleased Liens
ALTIX	REGISTERED	78182640	2803777	6-Jan-04	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
CLUSTERWORX	REGISTERED	75895390	2568116	7-May-02	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY INTEREST Recorded: 16-DEC-2008 Reel/Frame: 3904/0912
 Design Only	RENEWED (REGISTERED)	73587923	1439837	19-May-87	Assignee: MORGAN STANLEY & CO., INCORPORATED Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
EVOLOCITY	REGISTERED	76114918	2714075	6-May-03	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY INTEREST Recorded: 16-DEC-2008 Reel/Frame: 3904/0912
FAILSAFE	REGISTERED	76279586	2743739	29-Jul-03	Assignee: MORGAN STANLEY & CO., INCORPORATED Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
ICEBOX	REGISTERED	76308934	3011701	1-Nov-05	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY INTEREST Recorded: 16-DEC-2008 Reel/Frame: 3904/0912

11708310_5.DOC

Trademark	Status	Appl. No.	Reg. No.	Reg. Date	Unreleased Liens
IMAGEVISION LIBRARY	RENEWED (REGISTERED)	74168496	1798517	12-Oct-93	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
INDIGO	RENEWED (REGISTERED)	74136537	1783257	20-Jul-93	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
INFINITE REALITY	RENEWED (REGISTERED)	75049218	2095910	9-Sep-97	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
IRIS	RENEWED (REGISTERED) Section 44(D)	72352782	929992	29-Feb-72	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
IRIS FAILSAFE	REGISTERED	76279589	2787974	2-Dec-03	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
IRIX	RENEWED (REGISTERED)	75212191	2127113	6-Jan-98	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
Linux Networx LINUX NETWORX	REGISTERED	76124835	2896522	26-Oct-04	Assignee: MORGAN STANLEY & CO., INC. Brief: SECURITY INTEREST Recorded: 16-DEC-2008 Reel/Frame: 3904/0912
sgi SGI	REGISTERED	75702640	2579277	11-Jun-02	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227

Trademark	Status	Appl. No.	Reg. No.	Reg. Date	Unreleased Liens
Design Only	REGISTERED Supplemental Register	78781227	3451652	17-Jun-08	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
NUMAFLEX	REGISTERED	76110858	3485375	12-Aug-08	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
NUMALINK	REGISTERED	76110851	3093486	16-May-06	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
OCTANE	REGISTERED	75214146	2168514	23-Jun-98	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
ONYX	RENEWED (REGISTERED)	74352513	1935775	14-Nov-95	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
OPENGL	RENEWED (REGISTERED)	74457527	1861701	8-Nov-94	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
OPEN INVENTOR OPEN INVENTOR	REGISTERED	78469817	3353285	11-Dec-07	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227

11708310_5.DOC

Trademark	Status	Appl. No.	Reg. No.	Reg. Date	Unreleased Liens
OpenGL	REGISTERED	75916455	2756592	26-Aug-03	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
OPENGL OPENML	REGISTERED	76037014	2576637	4-Jun-02	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
ORIGIN	REGISTERED	75158865	2498533	16-Oct-01	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
REALITY CENTER	REGISTERED	75706196	2815943	24-Feb-04	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
REALITY CENTER	REGISTERED	75983314	2923548	1-Feb-05	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
SGI	REGISTERED	75574897	2517897	11-Dec-01	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
sgi SGI	REGISTERED	75609926	2517956	11-Dec-01	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227

Trademark	Status	Appl. No.	Reg. No.	Reg. Date	Unreleased Liens
SGIUG	REGISTERED	78411146	3159951	17-Oct-06	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
SGIUG SILICON GRAPHICS	RENEWED (REGISTERE D)	73587922	1519576	10-Jan-89	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
SiliconGraphics	REGISTERED	73694562	1505659	27-Sep-88	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
SILICONGRAPHICS SiliconLIVE	PUBLISHED (PENDING) Intent to Use	77270954			
SILICONLIVE SILICON GRAPHICS FUEL	REGISTERED	76350213	2759937	2-Sep-03	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
SILICON GRAPHICS PRISM	REGISTERED	78494679	3146570	19-Sep-06	

Trademark	Status	Appl. No.	Reg. No.	Reg. Date	Unreleased Liens
TEZRO	REGISTERED	78240435	2821359	9-Mar-04	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
UPSAFE	REGISTERED	75912147	2663825	17-Dec-02	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
VIRTU	PUBLISHED (PENDING) Intent to Use	77428359			
VIRTU VIZSERVER	REGISTERED	78705573	3424248	6-May-08	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227
VIZSERVER XFS	REGISTERED	78143151	2709544	22-Apr-03	Assignee: MORGAN STANLEY & CO., INC. Brief: ASSIGNMENT OF TRADEMARK SECURITY INTEREST Recorded: 12-OCT-2007 Reel/Frame: 3639/0227

11708310_5.DOC

U.S. Copyrights and Copyright Applications

TITLE OF WORK	OWNER	COPYRIGHT NO.	REGISTRATION DATE	Unreleased Liens
Advanced RISC computing standards specification	Compaq Computer Corporation, Microsoft Corporation, Digital Equipment Corporation, MIPS Computer Systems, Inc., Santa Cruz Operation & Silicon Graphics, Inc.	TX3321564	15-Nov-91	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
Cosmo 3D	Silicon Graphics, Inc.	TX4508220	4-Sep-97	
FX 5.2	Silicon Graphics, Inc.	TX4011743	14-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
FX 5.3	Silicon Graphics, Inc.	TX4080492	14-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
INST for IRIX operating system 5.3	Silicon Graphics, Inc.	TX4030517	17-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
INST. For IRIX operating system 5.2	Silicon Graphics, Inc.	TX4039752	20-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
IRIS graphics library; IRIS 1000 graphics library	Silicon Graphics, Inc.	TX2254968	30-Oct-87	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
IRIS Graphics library	Silicon Graphics, Inc.	TX2189440	30-Oct-87	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
IRIS graphics library; prev. or alternative ti., IRIS 4D/60 graphics library	Silicon Graphics, Inc.	TX2258964	2-Nov-87	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
IRIX operating system 5.0	Silicon Graphics, Inc.	TX4049554	14-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
IRIX operating system 4.0	Silicon Graphics, Inc.	TX4043632	20-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882

TITLE OF WORK	OWNER	COPYRIGHT NO.	REGISTRATION DATE	Unreleased Liens
IRIX operating system 5.1	Silicon Graphics, Inc.	TX4030275	17-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
IRIX operating system 5.2	Silicon Graphics, Inc.	TX4035236	20-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
IRIX operating system 5.3	Silicon Graphics, Inc.	TX4049552	14-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
IRIX operating system 6.5	Silicon Graphics, Inc.	TX5620232	13-Mar-02	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
LIA 4862 (XMAP2)	Silicon Graphics Computer Systems	MW6779	5-Feb-91	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
LIA 5328 (REV 2.1B)	Silicon Graphics Computer Systems	MW6778	5-Feb-91	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
Mask Work as contained in the R4400	Silicon Graphics, Inc.	MW9080	8-Jun-93	
Mask Work as contained in the R8000	Silicon Graphics, Inc.	MW9985	18-Apr-94	
Mask Work as contained in the R8010	Silicon Graphics, Inc.	MW9990	18-Apr-94	
Mask Work as contained in the R4200	Silicon Graphics, Inc.	MW10307	13-Sep-94	
Open GL programming guide: the official guide to learning OpenGL, version 1.1/OpenGL Architecture Review Board. Mason Woo, Jackie Neider. Tom Davis	Silicon Graphics, Inc.	TX4511339	8-Apr-97	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
Open GL programming guide/Mason Woo, Tom Davis,Jackie Neider, David Schreiner	Silicon Graphics, Inc.	TX5084206	22-Oct-99	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
Open GL programming guide	Silicon Graphics, Inc.	TX6244408	22-Sep-05	

1170631O_5 DOC

TITLE OF WORK	OWNER	COPYRIGHT NO.	REGISTRATION DATE	Unreleased Liens
Open inventor C++ reference manual; the official reference document for open inventor, release 2.	Silicon Graphics, Inc.	TX3903037	31-Oct-94	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
OPENGL optimizer 1.0	Silicon Graphics, Inc.	TX4508192	3-Sep-07	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
OPENGL programming guide - the official guide to learning OPENGL, release 1	Silicon Graphics, Inc.	TX3616133	29-Sep-93	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
OpenGL programming guide: the official guide to learning OpenGL, version 1.4 / David Shreiner, Jackie Neider, Mason Woo, Tom Davis	Silicon Graphics, Inc.	TX5994534	9-Jun-04	
OPENGL reference manual: the official reference document to OPENGL, version 1.2	Silicon Graphics, Inc.	TX5144068	22-Feb-00	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
OPENGL reference manual: the official reference document to OPENGL, version 1.1	Silicon Graphics, Inc.	TX4511415	8-Apr-97	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
OpenGL reference manual: the official reference document to OpenGL, version 1.4 / editor, Dave Shreiner	Silicon Graphics, Inc.	TX5986324	23-Jun-04	
SASH	Silicon Graphics, Inc.	TX4043937	14-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
SASH for IRIX operating system 5.3	Silicon Graphics, Inc.	TX4049553	14-Apr-95	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
Silicon Graphics, Inc. (high tech series, vol. 2)	Silicon Graphics, Inc.	TX4213024		
The inventor mentor: programming object-oriented 3d graphics with open inventor, release 2.	Silicon Graphics, Inc.	TX3807545	29-Apr-94	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882

11703310_5.DOC

TITLE OF WORK	OWNER	COPYRIGHT NO.	REGISTRATION DATE	Unreleased Liens
The inventory toolmaker: extending open inventor, release 2.	Silicon Graphics, Inc.	TX3888466	29-Aug-94	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
The VRML 2.0 handbook: building moving worlds on the web	Silicon Graphics, Inc.	TX4238282	16-Dec-96	Holder: General Electric Corp. Recorded: October 18, 2006 Microfilm: V003543 P882
Directory of applications software for Cray supercomputers	Cray Research, Inc.	TX2183151	15-Oct-87	
Interface: a monthly newsletter for employees of Cray Research, Inc. /editor, Candace Louviere	Cray Research, Inc.	TX769005	21-Sep-81	

Special Note:

Whether or not Seller may own rights in the patent family listed below has not been conclusively determined. Such determination would likely require court proceedings. No representations or warranties are made with respect to this patent family.

Title	Status	Application No.
Patents and applications derived from U.S. Patent Application No. 07/510898, INTEGRATED CIRCUIT I/O USING A HIGH PERFORMANCE BUS INTERFACE, now abandoned.	Pending/ Issued	7510898